CIVIL PRO

NAME OF WORK: CONSTRUCTION OF BASAVALINGAPPA SAMUDAYA BHAVANA AND CONSTRUCTION OF AMBEDKAR BHAVAN IN AMRUTHAHALLI IN WARD NO 07

SUBMITTED TO B.B.M.P, BANGALORE

BRUHAT BENGALURU MAHANAGARA PALIKE

NAME OF THE PROJECT

CONSTRUCTION OF BASAVALINGAPPA SAMUDAYA BHAVANA AND CONSTRUCTION OF AMBEDKAR BHAVAN IN AMRUTHAHALLI IN WARD NO 07

CIVIL Pro
Sig
Date
BANGALORE

Civil Pro
No.3, 7th Main,
Malleswaram Bengaluru-560003

Assistant Executive Engineer
Byatarayanapura Sub Division
BBMP, Bengaluru

ESTIMATE

BRUHAT BANGALORE MAHANAGARA PALIKE		
Name of Work: Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in Ward no 07		
ABSTRACT		
Sl No	**DESCRIPTION OF WORK**	**AMOUNT**
1	Building	16273959.29
2	Electrical	874667.36
3	DPR Charges (1% of estimated cost)	175000.00
4	Project management Consultancy Charges(1% of estimated cost)	175000.00
5	Miscellaneous and Rounding off	1373.35
	Total	**17500000**
		RUPEES ONE CRORE SEVENTY FIVE LAKHS ONLY

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on, PWD SR 2021-22 Vol I, II, III C.S.R of 2018-2019, and Data rates, PWD Electrical 2021-22, approved Rate and Issused Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

CIVIL Pro
Sig.....
Date.....
BANGALORE

ADMINISTRATIVE APPROVAL
Accorded For Rs. Rs. 175.00 Lakhs only
Head of A/c. P3288
Div. Ref. No. 36 Date. 28/10/22
A.E E.E (TTP)

Technical Sanction
Accorded For RS 175.00 Lakhs only
Head of A/C P3288
CER NO :20A..... Dt.... 14.06.2022

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in Ward no 07

1.BUILDING

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
1	Providing and laying in position Reinforced cement concrete for all Super structures of building , Road works, Water works, Irrigation works & super structure works of bridges upto 3.50 m height. The granite/ trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers laid in layers, well compacted using needle vibrators. The cost includes all lead & lifts, cost of all materials, quality confirming to the requirements of relevant IS codes , labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M25 Design Mix Using 20 mm nominal size graded crushed coarse aggregates. (PWD SR 2021-22 Vol -I Pg 17 item no 2.5.2)								
	COLUMNS AND PIERS								
	Second Floor								
	Columns								
	C1								
	Along grid B-4,B-3,D-4,D-3,D-2	cum	5	0.45	0.6	3.875	5.23		
	C2								
	Along grid B-5, B-2,D-5	cum	3	0.45	0.6	3.875	3.14		
	C3 and C3'								
	Along grid A-4, A-3,B-1,C- 1,D- 1, F-4,F-3	cum	7	0.45	0.45	3.875	5.49		
	C4 and C4'								
	Along grid A- 6, A-5, A- 2,A- 1,B-6,C-6,D-6,F-6,F-5,F-2,F-1	cum	11	0.45	0.45	3.875	8.63		
	C5								
	Along grid E-2',E-1', F-2',F-1	cum	4	0.20	0.45	3.875	1.40		
	Basic rate							6492.00	
	Add 10% For Shuttering							649.20	
	sub total							7141.20	
	Add lift charges for Second Floor							142.82	
	sub total							**7284.02**	
	Area weightage 10%							728.40	
	Total	**cum**					**23.89**	**8012.43**	**191411.86**
	ROOF SLABS AND BEAMS								
	Second Floor Roof Beams								
	B1(300X600)	cum	1	18.65	0.3	0.425	2.38		
	B2(450x750)	cum	1	18.80	0.45	0.575	4.86		
	B3(450x750)	cum	2	18.80	0.45	0.575	9.73		
	B12(450x750)	cum	1	15.40	0.45	0.575	3.98		
	B13(300x600)	cum	1	15.00	0.3	0.425	1.91		

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	B14(300x600)	cum	1	24.75	0.3	0.425	3.16		
	B15(300x600)	cum	1	24.75	0.3	0.425	3.16		
	B8(300x600)	cum	1	18.65	0.3	0.425	2.38		
	B9(300x600)	cum	1	18.65	0.3	0.425	2.38		
	B10(200x600)								
	Along grid 1& 2 between D & F	cum	2	3.53	0.2	0.425	0.60		
	B10(200x600)								
	Along grid 1'& 2' between E & E'	cum	2	1.30	0.2	0.425	0.22		
	B10(200x600)								
	Along grid E& E' between 1' & 2'	cum	2	1.80	0.2	0.425	0.31		
	SB1(200x600)	cum	2	4.60	0.2	0.425	0.78		
	SB2(200X600)	cum	2	3.60	0.2	0.425	0.61		
	Second Floor Roof Slab								
	Slab 1	cum	1	25.95	22.382	0.175	101.64		
		cum	1	2.20	2.55	0.175	0.98		
		cum	1	17.40	1	0.175	3.05		
		cum	1	5.00	1.5	0.175	1.31		
	Cut Lintel								
	MD	cum	1	2.40	0.2	0.2	0.10		
	Windows	cum	22	2.40	0.2	0.2	2.11		
	Deduction for openings								
	Staircase and lift portion	Cum	1	5.10	-5.8	0.175	-5.18		
	STAIRCASE								
	First flight								
	Waist slab	cum	1	3.00	1.45	0.175	0.76		
	Steps	cum	10	1.45		0.022	0.32		
				triangular area 0.5*0.3*0.15=0.022					
	Landing slab	Cum	1	1.33	1.45	0.175	0.34		
	Second flight								
	Waist slab	Cum	1	2.42	1.27	0.175	0.54		
	Steps	Cum	8	1.30		0.022	0.23		
				triangular area 0.5*0.3*0.15=0.022					
	Landing slab	Cum	1	1.33	1.55	0.175	0.36		
	Third flight								
	Waist slab bottom	Cum	1	2.75	1.45	0.175	0.70		

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	Steps	Cum	9	1.45		0.022	0.29		
				triangular area 0.5*0.3*0.15=0.022					
	Landing	Cum	1	2.10	1.65	0.175	0.61		
	Basic rate							6492.00	
	Add 20% For Shuttering							1298.40	
	sub total							7790.40	
	Add lift charges for Second Floor							155.81	
	sub total							**7946.21**	
	Area weightage 10%							794.62	
	Total	**cum**					**144.60**	**8740.83**	**1263957.76**
	Second floor								
	Chejja								
	Second floor								
	W	cum	22	1.80	0.3	0.075	0.89		
	V	cum	3	1.05	0.3	0.075	0.07		
	Basic rate							6492.00	
	Add 45% For Shuttering							2921.40	
	sub total							9413.40	
	Add lift charges for Second Floor							188.27	
	sub total							**9601.67**	
	Area weightage 10%							960.17	
	Total	**cum**					**0.96**	**10561.83**	**10139.36**
	Third Floor								
	COLUMNS AND PIERS								
	Columns								
	C1								
	Along grid B-4,B-3,D-4,D-3,D-2	cum	3	0.45	0.6	3.875	3.14		
	C2								
	Along grid B-5, B-2,D-5	cum	2	0.45	0.6	3.875	2.09		
	C3 and C3'								
	Along grid A-4, A-3,B-1,C- 1,D- 1, F-	cum	3	0.45	0.45	3.875	2.35		
	C4 and C4'								
	Along grid A- 6, A-5, A- 2,A- 1,B-6,C-6,D-6,F-6,F-5,F-2,F-1	cum	8	0.45	0.45	3.875	6.28		
	C5								
	Along grid E-2',E-1', F-2',F-1	cum	4	0.20	0.45	3.875	1.40		
	Basic rate							6492.00	
	Add 10% For Shuttering							649.20	
	sub total							7141.20	
	Add lift charges for Third Floor							214.24	
	sub total							**7355.44**	
	Area weightage 10%							735.54	

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	Total	**cum**					**15.26**	**8090.98**	**123450.65**
	Third Floor								
	Third Floor Roof Beams								
	B1(300X600)	cum	1	18.65	0.3	0.425	2.38		
	B2(450x750)	cum	1	18.80	0.45	0.575	4.86		
	B3(450x750)	cum	1	18.80	0.45	0.575	4.86		
	B3(450x750)	cum	0	3.55	0.45	0.575	0.00		
	B14(300x600)	cum	1	8.65	0.3	0.425	1.10		
	B15(300x600)	cum	1	8.65	0.3	0.425	1.10		
	B8(300x600)	cum	1	8.65	0.3	0.425	1.10		
	B9(300x600)	cum	1	8.65	0.3	0.425	1.10		
	B10(200x600)								
	Along grid 1& 2 between D & F	cum	2	3.62	0.2	0.425	0.62		
	B10(200x600)								
	Along grid 1'& 2' between E & E'	cum	2	1.30	0.2	0.6	0.31		
	B10(200x600)								
	Along grid E& E' between 1' & 2'	cum	2	1.80	0.2	0.6	0.43		
	SB1(200x600)	cum	2	4.60	0.2	0.425	0.78		
	SB2(200X600)	cum	2	3.60	0.2	0.425	0.61		
	Third Floor Roof Slab								
	Slab 1	cum	1	22.10	10	0.175	38.68		
		cum	1	6.03	15.9	0.175	16.78		
	Deduction for openings								
	Staircase and lift portion	Cum	1	5.10	-5.8	0.175	-5.18		
	Cut Lintel								
	W	Cum	10	2.10	0.2	0.2	0.84		
	MD	Cum	1	2.10	0.2	0.2	0.08		
	Basic rate							6492.00	
	Add 20% For Shuttering							1298.40	
	sub total							7790.40	
	Add lift charges for Third Floor							233.71	
	sub total							**8024.11**	
	Area weightage 10%							802.41	
	Total	**cum**					**70.47**	**8826.52**	**622029.36**

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	Chejja								
	Third floor								
	W	cum	10	1.80	0.3	0.075	0.41		
	Basic rate							6492.00	
	Add 45% For Shuttering							2921.40	
	sub total							9413.40	
	Add lift charges for Second Floor							282.40	
	sub total							**9695.80**	
	Area weightage 10%							969.58	
	Total	**cum**					**0.41**	**10665.38**	**4372.81**
2	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members whereever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately). (PWD SR 2021-22 Vol -II Pg 84 item no 11.32)								
	Second Floor								
	Column	tonne		200 kg/cum			**4.78**		
	Staircase	tonne		125 kg/cum			**0.52**		
	Beams	tonne		375 kg/cum			**13.67**		
	Slabs	tonne		120 kg/cum			**12.84**		
	Lintels	tonne		100 kg/cum			**0.22**		
	Chajja	tonne		100 kg/cum			**0.10**		
	Basic rate							106.00	
	Add lift charges for Second Floor							2.12	
	sub total							108.1	
	Area weightage 10%							10.81	
	Total	**Kg**					**32120.58**	**118.9**	**3820164.96**
	Third Floor								
	Column	tonne		200 kg/cum			**3.05**		
	Beams	tonne		375 kg/cum			**7.58**		
	Slabs	tonne		120 kg/cum			**6.65**		
	Lintels	tonne		100 kg/cum			**0.09**		
	Chajja	tonne		100 kg/cum			**0.04**		
	Basic rate							106.00	
	Add lift charges for third Floor							3.18	
	sub total							109.2	
	Area weightage 10%							10.92	
	Total	**Kg**					**17416.30**	**120.1**	**2091662.21**
	Providing and constructing load bearing wall with Solid Concrete blocks of size 400x200x200mm having block density more than 1800kg/m3 and minimum compressive strength of 4.00 N/mm2 conforming to IS 2185 (Part - I) - 2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all materials, labour, scaffolding and curing, usage charges of machinery etc complete as per specifications. (PWD SR 2021-22 Vol - II Pg 17 item no 6.32)								
	Second Floor								
	Outerwall								

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
		Sqm	2	20.90		3.45	144.21		
		Sqm	1	25.30		3.45	87.29		
		Sqm	1	20.77		3.45	71.66		
	Deduction								
	W	Sqm	22	-1.20		1.8	-47.52		
	MD	Sqm	1	-1.80		2.1	-3.78		
	V	Sqm	3	-0.60		0.75	-1.35		
	Column	Sqm	18	-0.45		3.45	-27.95		
	Cut Lintel								
	W	Sqm	22	-2.10		0.2	-9.24		
	MD	Sqm	1	-2.10		0.2	-0.42		
	Staircase portion	Sqm	1	4.60		3.45	15.87		
		Sqm	1	3.60		3.45	12.42		
	Lift	Sqm	4	2.20		3.45	30.36		
	Deduction								
	Lift opening	Sqm	1	1.80		-2.1	-3.78		
	Column	Sqm	2	0.45		-2.7	-2.43		
		Sqm	2	0.20		-2.7	-1.08		
		Sqm	2	0.60		-2.7	-3.24		
	Basic rate							1202.00	
	Add lift charges for Second Floor							24.04	
	sub total							1226.04	
3	Area weightage 10%							122.60	
	Total	**Sqm**					**261.02**	**1348.64**	**352018.34**
	Third Floor								
	Outerwall								
		Sqm	2	20.90		3.45	144.21		
		Sqm	2	9.80		3.45	67.62		
		Sqm	2	3.40		3.45	23.46		
			2	4.80		3.45	33.12		
	Staircase portion	Sqm	1	4.60		3.45	15.87		
			1	3.60		3.45	12.42		
	Lift	Sqm	4	2.20		3.45	30.36		
	Deduction								
	Lift opening	Sqm	1	1.80		-2.1	-3.78		
	W	Sqm	10	-1.20		1.8	-21.60		
	MD	Sqm	1	-1.80		2.1	-3.78		
	V	Sqm	0	-0.60		0.75	0.00		
	Column								
	Horizontal directions	Sqm	8	-0.60		3.45	-16.56		
			9	-0.45		3.45	-13.97		
	Vetical Directions	Sqm	10	-0.45		3.45	-15.53		
			4	-0.20		3.45	-2.76		
	Cut Lintel								

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	W	Sqm	10	-2.10		0.2	-4.20		
	MD	Sqm	1	-2.10		0.2	-0.42		
	Basic rate							1202.00	
	Add lift charges for Second Floor							36.06	
	sub total							1238.06	
	Area weightage 10%							123.81	
	Total	**Sqm**					**244.46**	**1361.87**	**332925.17**
4	Providing 12 mm cement plaster with cement mortar 1:4 (1 cement: 4 fine sand) to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 41 item no 8.1.1)								
	Second Floor								
	ceiling	Sqm	1	22.40	25.95		581.28		
		Sqm	1	17.40	1		17.40		
		Sqm	1	5.00	1.5		7.50		
	Beam	Sqm	8	20.90		0.575	96.14		
		Sqm	1	20.90		0.425	8.88		
		Sqm	1	20.90		0.6	12.54		
		Sqm	3	27.45		0.425	35.00		
		Sqm	3	20.45		0.425	26.07		
		Sqm	1	20.45		0.6	12.27		
		Sqm	1	27.45		0.6	16.47		
	Internal Columns								
	C1	Sqm	4	2.10		2.85	23.94		
	C2	Sqm	2	2.10		2.85	11.97		
	Deduction								
	Lift	Sqm	1	1.80	-1.8		-3.24		
	Column								
	C1	Sqm	6	0.45	-0.6		-1.62		
	C2	Sqm	3	0.45	-0.6		-0.81		
	C3	Sqm	7	0.45	-0.45		-1.42		
	C4	Sqm	11	0.45	-0.45		-2.23		
	C5	Sqm	4	0.20	-0.45		-0.36		

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	Basic rate							218.00	
	Add lift charges for							4.36	
	sub total							222.36	
	Area weightage 10%							22.24	
	Total	**Sqm**					**839.79**	**244.60**	**205409.27**
	Third Floor								
	ceiling	Sqm	1	22.10	9.4		207.74		
	B2(450x750)	Sqm	2	18.80		0.58	21.62		
	B15(300x600)	Sqm	2	8.65		0.43	7.35		
	B8(300x600)		2	8.65		0.43	7.35		
	Internal Columns								
	C2	Sqm	2	2.1		2.85	11.97		
	Deduction								
	Lift Opening	Sqm	1	-1.80		1.8	-3.24		
	Basic rate							218.00	
	Add lift charges for							6.54	
	sub total							224.54	
	Area weightage 10%							22.45	
	Total	**Sqm**					**252.80**	**246.99**	**62438.85**
5	Providing 18 mm cement plaster in two coats under layer 12 mm thick cement plaster with cement mortar 1:5 (1 cement : 5 coarse sand) and a top layer 6 mm thick cement plaster with cement mortar 1:3 (1 cement: 3 coarse sand) finished rough with sponge to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 42 item no 8.9)								
	Inside Plastering								
	Second Floor								
	Hall	Sqm	2	20.50		3.875	158.88		
		Sqm	1	25.50		3.875	98.81		
	Column	Sqm							
	C1	Sqm	4	2.10		3.3	27.72		
	C2	SQm	2	2.10		3.3	13.86		
	Deduction								
	W	Sqm	11	-1.20		1.8	-23.76		
	MD	Sqm	1	-1.80		2.1	-3.78		
	V	Sqm	3	-0.60		0.75	-1.35		
	Staircase portion	Sqm	2	4.60		3.875	35.65		
			1	5.50		3.88	21.34		
	Lift	Sqm	8	2.20		4.05	71.28		
	Deduction								
	Lift opening	Sqm	1	1.80		-2.1	-3.78		
	Basic rate							329.00	
	Add lift charges for First Floor							6.58	
	sub total							**335.58**	
	Area weightage 10%							33.56	
	Total	**Sqm**					**394.87**	**369.14**	**145760.60**

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	Third Floor								
	Hall	Sqm	2	20.50		3.875	158.88		
		Sqm	2	9.40		3.875	72.85		
	Column	Sqm							
	C2	SQm	2	2.10		3.3	13.86		
	Deduction								
	W	Sqm	10	-1.20		1.8	-23.76		
	MD	Sqm	1	-1.80		2.1	-3.78		
	Staircase portion	Sqm	1	4.6		3.45	15.87		
			2	3.6		3.45	24.84		
	Lift	Sqm	8	2.2		3.45	60.72		
	Deduction								
	Lift opening	Sqm	1	1.80		-2.1	-3.78		
	Basic rate							329.00	
	Add lift charges for First Floor							9.87	
	sub total							**338.87**	
	Area weightage 10%							33.89	
	Total	**Sqm**					**315.70**	**372.76**	**117677.52**
6	Providing 20 mm cement plaster of mix :1:4 (1 cement: 4 fine sand) to brick/stone masonary including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 41 item no 8.3.1)								
	Outside Plastering								
	Second Floor								
		Sqm	2	20.90		4.05	169.29		
		Sqm	1	25.95		4.05	105.10		
	Deduction								
	W	Sqm	22	-1.20		1.8	-47.52		
	MD	Sqm	1	-1.80		2.1	-3.78		
	V	Sqm	3	-0.60		0.75	-1.35		
	Chejja								
	Top								
	W	cum	15	1.80	0.3		8.10		
	V	cum	3	1.05	0.3		0.95		
	Bottom								
	W	cum	15	1.80	0.3		8.10		
	V	cum	3	1.05	0.3		0.95		
	Side								
	W	Sqm	15	2.40		0.1	3.60		
	V	Sqm	3	1.65		0.1	0.50		
	Basic rate							307.00	
	Lift charges for Second Floor							6.14	
	sub total							313.14	
	Area weightage 10%							31.31	
	Total	**Sqm**					**243.92**	**344.45**	**84020.08**

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	Third Floor								
		Sqm	2	20.90		4.05	169.29		
		Sqm	2	9.80		4.05	79.38		
		Sqm	1	4.6		3.45	15.87		
		Sqm	2	3.6		3.45	24.84		
	Deduction								
	W	Sqm	10	-1.20		1.8	-21.60		
	Chejja								
	Top								
	W	cum	10	1.80	0.3		5.40		
	Bottom								
	W	cum	10	1.80	0.3		5.40		
	Side								
	W	Sqm	10	2.40		0.1	2.40		
	Basic rate							307.00	
	Lift charges for Second Floor							9.21	
	sub total							316.21	
	Area weightage 10%							31.62	
	Total	**Sqm**					**280.98**	**347.83**	**97733.55**
7	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to openings / wooden frames with rawl plugs screws etc. (PWD SR 2021-22 Vol -II Pg 85 item no 11.34B)								
	Second Floor								
	W	kgs	22			45.36	997.92		
			21kg per sqm 1.2*1.8*21=45.36						
	V	kgs	3			9.45	28.35		
	Same Rate.		21kg per sqm 0.75*0.6*21=9.45						
	Basic rate							171.00	
	Additional rate for							3.42	
	sub total							174.42	
	Area weightage 10%							17.44	
	Total	kgs					**1026.27**	**191.86**	**196902.21**
	Third Floor								
	W	kgs	10			45.36	453.60		
			21kg per sqm 1.2*1.8*21=45.36						
	Basic rate							171.00	
	Additional rate for							5.13	
	sub total							176.13	
	Area weightage 10%							17.61	
	Total	kgs					**453.60**	**193.74**	**87881.82**

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
8	Providing & fixing of 3-track x 2-panel sliding windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free, gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the window frame. The outer frame having an overall size of 108mm width x 45mm height with reinforcement of 1mm thickness and Sash with overall size of 39mm x 75mm with GI reinforcement of 2mm and mesh sash of size 37mm x 58mm. Coextruded Glazing bead for fixing of glass shall be of size 20mm x 24 mm. Windows shall be provided with 6mm plain float glass, standard hardware& Multi point locking system with touch lock. Wall thickness of frame & sash shall be of 2mm-2.5mm. Maximum possible size – 2419mm x 2200mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made). (PWD SR 2021-22 Vol -II Pg 112 item no 12.9)								
	Second Floor								
	W	Sqm	22	1.20		1.8	47.52		
	Basic rate							7240.00	
	Additional rate for							144.80	
	sub total							7384.80	
	Area weightage 10%							738.48	
	Total	Sqm					**47.52**	**8123.28**	**386018.27**
	Third Floor								
	W	Sqm	10	1.20		1.8	21.60		
	Basic rate							7240.00	
	Additional rate for							217.20	
	sub total							7457.20	
	Area weightage 10%							745.72	
	Total	Sqm					**21.60**	**8202.92**	**177183.07**
9	Providing & fixing of louvered ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPE(Thermo Plastic Elastomer) and lead free with gaskets -grey colour having isolated drainage and reinforced with Galvanized Iron profile through-out the ventilator frame. The frame having overall size of 39mm x 39mm with GI reinforcement of 1mm thickness. Louver clip in Aluminium (powder coated in white) will be used on the frame along with plastic parts for fixing the 4 mm pin head glass. Wall thickness of frame shall be 2mm.Maximum possible size – 1000mm x 1000mm. (The cost is inclusive of all fixtures and separate charges for minor T&P's shall not be made). (PWD SR 2021-22 Vol -II Pg 110 item no 12.85)								
	Second Floor								
	V	Sqm	3	0.75		0.6	1.35		
	Basic rate							4870.00	
	Additional rate for							97.40	
	sub total							4967.40	
	Area weightage 10%							496.74	
	Total	Sqm					**1.35**	**5464.14**	**7376.59**
10	Providing Teak wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, usage charges complete as per specifications. (PWD SR 2021-22 Vol -II Pg 99 item no 12.10)								
	Second Floor								
	MD	Cum	1	7.80	0.15	0.125	0.15		
	Basic rate							235649.00	

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	Additional rate for							4712.98	
	sub total							240361.98	
	Area weightage 10%							24036.20	
	Total	Cum					**0.15**	**264398.18**	**39659.73**
	Third Floor								
	MD	Cum	1	7.80	0.15	0.125	0.15		
	Basic rate							235649.00	
	Additional rate for							7069.47	
	sub total							242718.47	
	Area weightage 10%							24271.85	
	Total	Cum					**0.15**	**266990.32**	**40048.55**
11	Providing and fixing in position fully panelled Teak wood shutters for doors with stiles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and stiles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, usage charges complete as per specifications. (excluding cost of fixtures). (PWD SR 2021-22 Vol -II Pg 100 item no 12.14)								
	Second Floor								
	MD	Sqm	1	1.80		2.1	3.78		
	Basic rate							9334.00	
	Additional rate for							186.68	
	sub total							**9520.68**	
	Area weightage 10%							952.07	
	Total	Sqm					**3.78**	**10472.75**	**39586.99**
	Third Floor								
	MD	Sqm	1	1.80		2.1	3.78		
	Basic rate							9334.00	
	Additional rate for							280.02	
	sub total							**9614.02**	
	Area weightage 10%							961.40	
	Total	Sqm					**3.78**	**10575.42**	**39975.10**
12	French spirit polishing :Two coats on new works including a coat of wood filler to give an even surface including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, sand papering smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 49 item no 8.46)								
	Second and Third Floor								
	MD	Sqm	4	1.80		2.100	15.12		
	Basic rate							231.00	
	Area weightage 10%							23.10	
	Total	Sqm					**15.12**	**23.10**	**349.27**
13	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing , curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. ** Polished Granite stone slab Black, Cherry Red, Brown, Cat Eye, River Pink or equivalent. (PWD SR 2021-22 Vol -II Pg 63 item no 9.24)								
	Second Floor								
	Hall	Sqm	1	22.50	20.5		461.25		
		Sqm	1	16.20	5.1		82.62		

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
	Balcony	Sqm	1	1.50	29.95		44.93		
		Sqm	1	17.40	1		17.40		
		Sqm	1	5.00	1.5		7.50		
	Deduction								
	C2	Sqm	2	-0.45	0.6		-0.54		
	C1	Sqm	4	-0.45	0.6		-1.08		
	Skirting								
		Sqm	1	65.50		0.15	9.83		
		Sqm	1	26.40		0.15	3.96		
	Balcony	Sqm	1	29.95		0.15	4.49		
			1	17.40		0.15	2.61		
			1	5.00		0.15	0.75		
	for Column	Sqm							
	C2	Sqm	2	2.10		0.15	0.63		
	C1	Sqm	4	2.10		0.15	1.26		
	Deduction for Skirting								
	D1	Sqm	1	0.90		-0.15	-0.14		
	opening	Sqm	1	1.00		-0.15	-0.15		
	MD	Sqm	1	1.80		-0.15	-0.27		
	Second Floor								
	Riser	Sqm	19	1.45		0.15	4.13		
		Sqm	8	1.30		0.15	1.56		
	Tread	Sqm							
		Sqm	17	1.45	0.3		7.40		
		Sqm	7	1.30	0.3		2.73		
	Landing	Sqm							
		Sqm	2	1.30	1.45		3.77		
	Basic rate							2881.00	
	Add lift charges for First Floor							57.62	
	sub total							**2938.62**	
	Area weightage 10%							293.86	
	Total	**Sqm**					**654.64**	**3232.48**	**2116112.02**
	Third Floor								
	Hall	Sqm	1	20.50	9.4		192.70		
	Balcony	Sqm	1	1.50	25.7		38.55		
	Deduction								
	C2	Sqm	2	-0.45	0.6		-0.54		
	Skirting								
		Sqm	1	59.80		0.15	8.97		
	for Column	Sqm							
	C2	Sqm	2	2.10		0.15	0.63		
	Basic rate							2881.00	
	Add lift charges for First Floor							86.43	
	sub total							**2967.43**	
	Area weightage 10%							296.74	
	Total	**Sqm**					**240.31**	**3264.17**	**784413.41**

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
14	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in- charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge. (PWD SR 2021-22 Vol -I Pg 83 item no 11.28) volume -2. (Qo).								
	Second Floor								
	for Staircase	Sqm	1	17.80		0.9	16.02		
		Sqm	1	8.20		0.9	7.38		
	Balcony Railings	Sqm	1	1.20		1.2	1.44		
		Sqm	1	23.95		1.2	28.74		
		Sqm	1	17.40		1.2	20.88		
		Sqm	1	5.00		1.2	6.00		
		Sqm	1	2.00		1.2	2.40		
		Sqm	1	1.00		1.2	1.20		
	Sub Total	**Sqm**					**84.06**		
	Ttoal	**Kg**	**Assuming 12Kg/Sqm**				**1008.72**	✓	
	Basic rate							500.00	
	Add lift charges for Third Floor							10	
	sub total							510.00	
	Area weightage 10%							51.00	
	Total	Kg					**1008.72**	**561.00**	**565891.92**
15	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two coat applied @ 0.90 ltr/10 m² over an under coat of primer applied @ 0.80 ltr/10 m² of approved brand and manufacture including preparing the surface after thorougly cleaning oil, grease, dirt and foreign matter, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 47 item no 8.33.3)								
	Second Floor								
	For window and ventilators Grills	sqm		window qty			47.52		
				ventilator qty			1.35	✓	
	Basic rate							106.00	
	Additional rate for							2.12	
	sub total							108.12	
	Area weightage 10%							10.81	
	Total	sqm					**48.87**	**118.93**	**5812.21**
	Third Floor								
	For window and ventilators Grills	sqm		window qty			21.60	✓	
	Basic rate							106.00	
	Additional rate for							3.18	
	sub total							109.18	
	Area weightage 10%							10.92	
	Total	Sqm					**21.60**	**120.10**	**2594.12**

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
16	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per specifications and as per directions of Engineer in charge. (PWD SR 2021-22 Vol -II Pg 50 item no 8.5.1) 8.51								
	Second Floor								
		Qty From Item no 11					839.79		
		Qty From Item no 12					394.87		
	Basic rate							83.00	
	Add lift charges for First Floor							1.66	
	sub total							**84.66**	
	Area weightage 10%							8.47	
	Total	**Sqm**					**1234.66**	**93.13**	**114978.71**
	Third Floor								
		Qty From Item no 11					252.80		
		Qty From Item no 12					315.70		
	Basic rate							83.00	
	Add lift charges for First Floor							2.49	
	sub total							**85.49**	
	Area weightage 10%							8.55	
	Total	**sqm**					**568.49**	**94.04**	**53460.23**
17	Finishing walls with Acrylic Smooth exterior paint of required shade :New work (Two coat applied @ 1.67 ltr/10 m² over and including priming coat of exterior primer applied @ 2.20 kg/10 m²) with paint of approved quality to give an even shade, after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge..(PWD SR 2021-22 Vol -II Pg 46 item no 8.30)								
	External Painting								
	Second Floor								
		Qty From Item no 13					243.92		
	Basic rate							136.00	
	Add lift charges for First Floor							2.72	
	sub total							**138.72**	
	Area weightage 10%							13.87	
	Total	**sqm**					**243.92**	**152.59**	**37220.62**
	Third Floor								
		Qty From Item no 13					280.98		
	Basic rate							136.00	
	Add lift charges for First Floor							4.08	
	sub total							**140.08**	
	Area weightage 10%							14.01	
	Total	**sqm**					**280.98**	**154.09**	**43295.65**

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
18	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :Two coats on new work after thoroughly brooming the surface to remove all dirt, dust, mortar drops and foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour complete as per specifications and as per directions of Engineer-in-charge. (PWD SR 2021-22 Vol -II Pg 48 item no 8.40)								
	inside painting								
	Second Floor		From Item no 23				1234.66		
	Basic rate							90.00	
	Add lift charges for First Floor							1.80	
	sub total							**91.80**	
	Area weightage 10%							9.18	
	Total	**sqm**					**1234.66**	**100.98**	**124675.71**
	Third Floor		From Item no 23				568.49		
	Basic rate							90.00	
	Add lift charges for First Floor							2.70	
	sub total							**92.70**	
	Area weightage 10%							9.27	
	Total	**Sqm**					**568.49**	**101.97**	**57968.93**
19	Providing and fixing Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. Electric resistance or induction butt welded tubes including cost of materials, labour, usage charges of machinery complete as per specifications and as per directions of the Engineer-in-Charge.. (PWD SR 2021-22 Vol -I Pg 81 item no 11.16.3) VOL-2								
	Head room	sft	(5x3.6)x3.28^2=193.7				193.65		
	Assume 3kg per sft	kg					580.95		
	Basic rate							110.00	
	Additional rate for							3.30	
	sub total							113.30	
	Area weightage 10%							11.33	
	Total	**Kg**					**580.95**	**124.63**	**72404.25**
20	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per m2 as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 m or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. (PWD SR 2021-22 Vol -2 Pg 26 item no 7.38)								
	Head room	Sqm	1	5.0	3.60		18.00		
	Basic rate							556.00	
	Additional rate for							16.68	
	sub total							572.68	
	Area weightage 10%							57.27	
	Total	**Sqm**					**18.00**	**629.95**	**11339.06**

Sl No	Description of Item	Mesurement					Qty	Rate	Amount
		Unit	No	L	B	D			
								Total Amount	14530320.79
								GST Charges (12% of estimated cost)	1743638.495
								Grand Total	16273959.29

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on, PWD SR 2021-22 Vol I, II, III C.S.R of 2018-2019, and Data rates, PWD Electrical 2021-22, approved Rate and Issused Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

CIVIL Pro
Sig
Date
BANGALORE

ADMINISTRATIVE APPROVAL
Accorded For Rs.....
Head of A/c.....
Div. Ref No.....Date.....
AE
EE(BTP)

Name of Work: Construction of Basavalingappa Samudaya Bhavana and Construction of Ambedkar Bhavan in Amruthahalli in Ward no 07								
2.ELECTRICAL								
SI.No	Description	Dimensions				Qty	Rate	Amount
		Unit	L	B	D			
KPWD (ELE) S.R 2021-22								
INTERNAL ELECTRICAL WORKS								
	PART-A PVC CONDUIT & ITS ACCESSORIES							
1	**Concealed Conduit System** Supplying heavy gauge PVC conduit pipe .....mm dia ..... mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary							
a)	19/20mm dia 2mm thick. (P.N0.1 ,I.No. 1.1.1)	Mtr				820.00	61.00	50020.00
b)	25mm dia 2mm thick. (P.N0.1 ,I.No. 1.1.2)	Mtr				530.00	70.00	37100.00
2	Supplying heavy gauge PVC Conduit Pipe ....dia ....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.							
a)	19/20mm dia 2mm thick (P No 1 ; I No 1.3.1)	Mtr				192.00	75.00	14400.00
b)	25mm dia 2mm thick (P No 1 ; I No 1.3.2)	Mtr				285.00	80.00	22800.00
3	Supplying and fixing PVC/metal conduit Deep junction box							
a)	25mm deep junction box(P No 1 ; I No 1.5.2)	No				124.00	51.00	6324.00
5	Extra for Groove cutting in brick wall/CC floor to the suitable depth for concealing of Conduit/GI pipe and plastering, finishing upto wall surface complete.							
a)	upto 50mm conduit in brick wall(P No 2 ; I No 1.7.1)	Mtr				290.00	26.00	7540.00
b)	upto 50mm conduit CC floor(P No 32; I No 1.7.2)	Mtr				25.00	62.00	1550.00
6	Supplying PVC/GI flexible conduit pipe...mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of thepi pe terminated completely							
a)	25mm (P No 2 ; I No 1.9.2)	Mtr				10.00	31.00	310.00
7	Supplying And Fixing Metal Fan Box with Round Hook.(P.N0 2,1.12)	No				26.00	163.00	4238.00
	PART-B WIRES & CABLES							
8	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694: and latest amendments) without control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet.							
a)	Short point upto 3Mtr from tapping point to out let via switch (P No 3 ; I No 2.2.1)	Pts				16.00	251.00	4016.00
b)	Medium point above 3M. upto 6M from tapping point to out let via switch (P No 3 ; I No 2.2.2)	Pts				21.00	361.00	7581.00
c)	Long point above 6Mtr. upto 10M from tapping point to out let via switch (P No 3 ; I No 2.2.3)	Pts				102.00	542.00	55284.00
d)	Two outlet in a row, above 3Mtr upto 6Mtr from tapping point to out let via switches (P No 3 ; I No 2.2.4)	Pts				38.00	671.00	25498.00

e)	Three outlet in a row, above 6Mtr upto 10Mtr from tapping point to out let via switches (P No 3 ; I No 2.2.5	Pts				20.00	979.00	19580.00
9	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments.							
a)	1 sqmm (P.No. 3, I.No.2.3.1)	Mtr				2900.00	18.00	52200.00
b)	1.5 sqmm (P.No. 3, I.No.2.3.2)	Mtr				4550.00	26.00	118300.00
c)	2.5 sqmm (P.No. 3, I.No.2.3.3)	Mtr				600.00	40.00	24000.00
d)	4 sqmm (P.No. 3, I.No.2.3.4)	Mtr				400.00	59.00	23600.00
e)	6 sqmm (P.No. 3, I.No.2.3.5)	Mtr				60.00	87.00	5220.00
f)	10 sqmm (P.No. 3, I.No.2.3.6)	Mtr				90.00	157.00	14130.00
	PART-C SWITHES AND SOCKETS							
10	Supplying and **flush mounting powder coated / galvanized metal box** suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall							
a)	1-3Way(P.NO 5,3.4.1)	No				1.00	123.00	123.00
b)	4-5Way(P.NO 5,3.4.2)	No				1.00	138.00	138.00
c)	6Way(P.NO 5,3.4.3)	No				4.00	212.00	848.00
d)	8Way(P.NO 5,3.4.4)	No				2.00	250.00	500.00
e)	10-12Way(P.NO 5,3.4.5)	No				2.00	325.00	650.00
f)	16-18Way(P.NO 5,3.4.6)	No				14.00	354.00	4956.00
11	Supplying and fixing **superior quality modular switch mounting polycarbonate plate** with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.							
a)	1 to 3 Module(P.NO 5,3.5.1)	No				1.00	152.00	152.00
b)	4 Module(P.NO 59,3.5.2)	No				1.00	175.00	175.00
c)	6 Module(P.NO 5,3.5.3)	No				4.00	244.00	976.00
d)	8 Module(P.NO 5,3.5.4)	No				2.00	302.00	604.00
e)	12 Module(P.NO 5,3.5.5)	No				2.00	363.00	726.00
f)	16-18 Module(P.NO 5,3.5.6)	No				14.00	403.00	5642.00
12	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293.							
a)	6Amps one way.(P.NO 5,3.6.1)	No				192.00	88.00	16896.00
b)	6Amps two way.(P.NO 5,3.6.2)	No				6.00	152.00	912.00
c)	6Amps 3way socket.(P.NO 5,3.6.3)	No				28.00	162.00	4536.00
d)	Stepped Fan Regulator.(P.NO 5,3.6.4)	No				31.00	313.00	9703.00
e)	16Amps one way switch (P.NO 5,3.6.8)	No				2.00	249.00	498.00
f)	32Amps DP switch (P.NO 5,3.6.10)	No				2.00	375.00	750.00
g	6/16Amps universal socket.(P.NO 5,3.6.11)	No				5.00	249.00	1245.00
13	Supplying 50mm **wooden plug**, tapered from 50x50mm to 25x25mm and fixing by using binding wire before concreting a roof slab.(P.NO 6,3.11)	No				950.00	8.00	7600.00
	PART-D-CONTROL SWITCHGEARS AND ACCESSORIES							
14	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.							
a)	6-32 Amps SP. (P.No.13, I.No.5.17.1)	No				28.00	523.00	14644.00
b)	5-32 Amps DP.(P.No.13, I.No. 5.17.4)	No				2.00	1103.00	2206.00
15	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door							
a)	6 way TPN (P.No.13, I.No.5.18.12)	No				2.00	3735.00	7470.00

16	Supplying, fixing and wiring Residual current circuit breaker (RCCB) 240/450V up to 300mA sensitivity on existing wood/panel board							
a)	63 Amps 4 pole (P.No.13, I.No.5.19.10)	No				2.00	5039.00	10078.00
17	Supplying ..... amps rated 3phase with neutral bus bar using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete.							
a)	100Amps 4x30x6mm Aluminium Strips(P.No.15, I.No.5.40.1)	Mtr				6.00	2214.00	13284.00
18	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.							
a)	50x50x6mm (P.No.15, I.No.5.41.2)	Mtr				6.00	356.00	2136.00
b)	40*40*6mm (P.No.15, I.No.5.41.1)	Mtr				6.00	275.00	1650.00
c)	50X100X50X6mm C channel (P.No.15, I.No.5.41.4)	Mtr				6.00	680.00	4080.00
19	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.							
a)	14SWG (P.No.15, I.No.5.42.1)	Sqc				125000.00	0.43	53750.00
	PART-F-FANS AND HVAC							
20	Supplying of Ceiling Fan with Capacitor rating As per guideline of BEE 5 star rating and IS:374/79 and also comply with IS:1709/1984 with latest amendment, Rated voltage 220 V/ 50 Hz, Rated power input 48 W +/- 10 %, Rated current As per IS:374/79, Rated power factor 0.9 lagging(min), Rated speed 350 +/- 10% RPM, Rated air delivery 210 +/- 10% Cubic Meter Minimum, Rated service value ≥ 4.2 CMM / Watt, Three Blades of blade leaf 1.05mm thick Aluminium Alloy sheet, Class B motor insulation,Bearing Two ball bearings, Top 6202, Bottom 6201 , as per IS specification, Motor wdg. Temp rise Shall not exceed 75 degC over and ambient of 40 0C by resistance method at 245Volts, Insulation resistance Shall not be less than Two Mega Ohms (2 M Ohms), Leakage current Should not exceed 210Micro Amp, Power input, watt& current , Air Delivery & Fan Speed as per IS:374/1979 with latest amendment, 2 year manufacturer Warranty							
a)	48" Sweep 5 Star (1200mm)(P.No.22 I.No 6.2)	No				26.00	2949.00	76674.00

	PART-G-LIGHT FIXTURES							
21	Supplying of .....feet - PVC Batten with integrated LED tube.....W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition.							
b	LED light fighting 1 x 4' - 20/22w(P.No.34 I.No 11.3.2)	No				59.00	740.00	43660.00
							Total amount in Rs	**780953**
							GST @12%	93714
							GrandTotal amount in Rs	**874667**

CERTIFICATE:

1) The work spot has been inspected and found to be necessary

2) The work spot comes under B.B.M.P

3) The provisions made in the estimate are necessary and minimum.

4) The estimate is based on, PWD SR 2021-22 Vol I, II, III C.S.R of 2018-2019, and Data rates, PWD Electrical 2021-22, approved Rate and Issused Rates.

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

CIVIL Pro
Sig.....
Date.....
BANGALORE